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Earthquake Shaking 🟢 **Green Alert**

GSN · USAID *FROM THE AMERICAN PEOPLE* · ANSS

M 4.1, 22 km ENE of Honaunau-Napoopoo, Hawaii

Origin Time: 2020-12-04 17:44:24 UTC (Fri 07:44:24 local)
Location: 19.5127° N 155.6627° W Depth: 4.7 km

PAGER
Version 2

Created: 2 hours, 3 minutes after earthquake

Estimated Fatalities

69%
29%

| 1 | 10 | 100 | 1,000 | 10,000 | 100,000 |

Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

65%
30%
4%

| 1 | 10 | 100 | 1,000 | 10,000 | 100,000 |

USD (Millions)
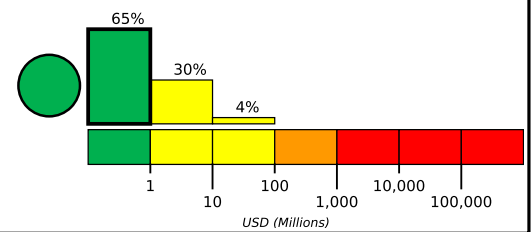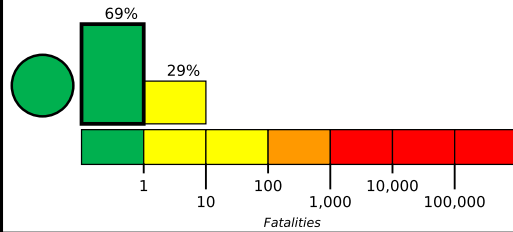
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		157k	199k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		**I**	**II-III**	**IV**	**V**	**VI**	**VII**	**VIII**	**IX**	**X+**
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	**Resistant Structures**	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

| 0 | 5 | 50 | 100 | 500 | 1000 | 5000 | 10000 |
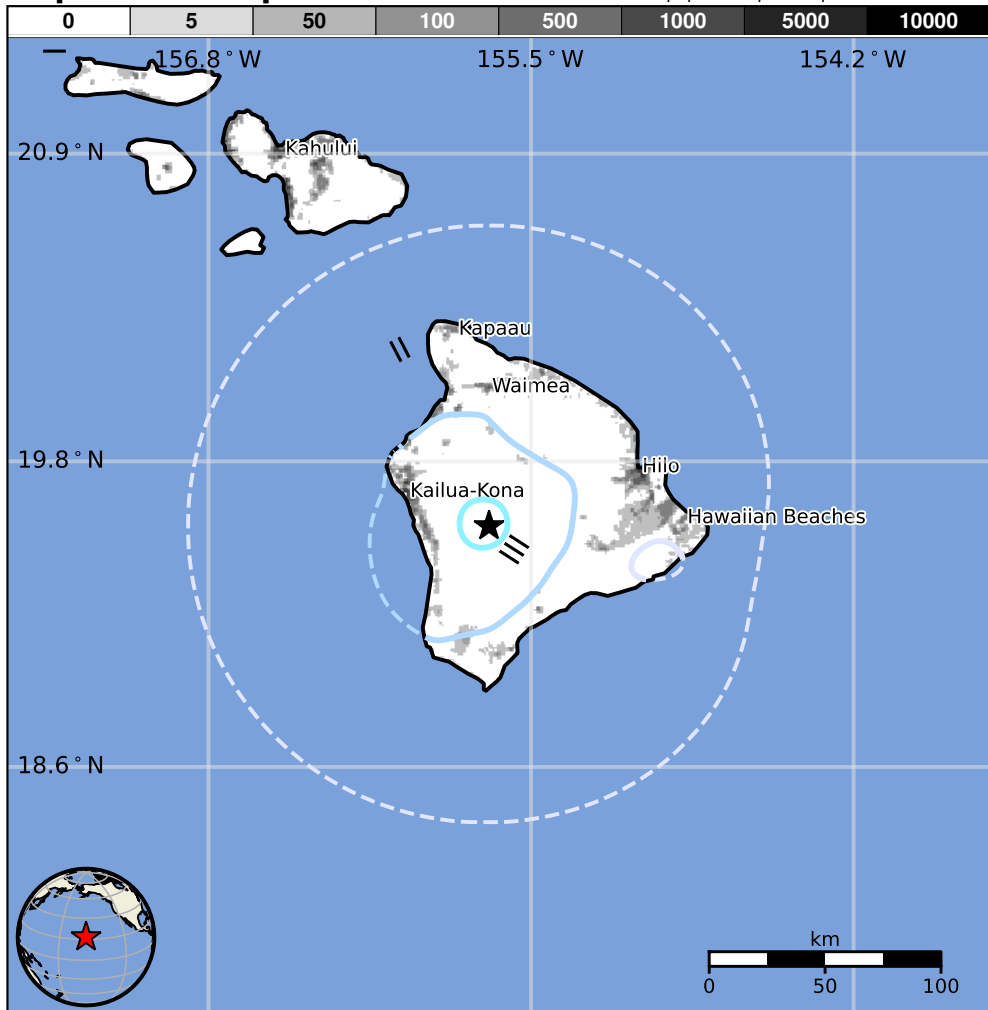
Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1973-04-26	75	6.2	VII(74k)	0
2006-10-15	51	6.7	VIII(15k)	0
1975-11-29	66	7.2	IX(30k)	2

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Honaunau-Napoopoo	3k
III	Kealakekua	2k
III	Captain Cook	3k
III	Kahaluu-Keauhou	4k
III	Honalo	2k
III	Holualoa	9k
III	**Kailua-Kona**	**12k**
II	**Hilo**	**43k**
I	**Kahului**	**26k**
I	Kihei	21k
I	Wailuku	15k

bold cities appear on map. (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/hv72261397#pager

Event ID: hv72261397